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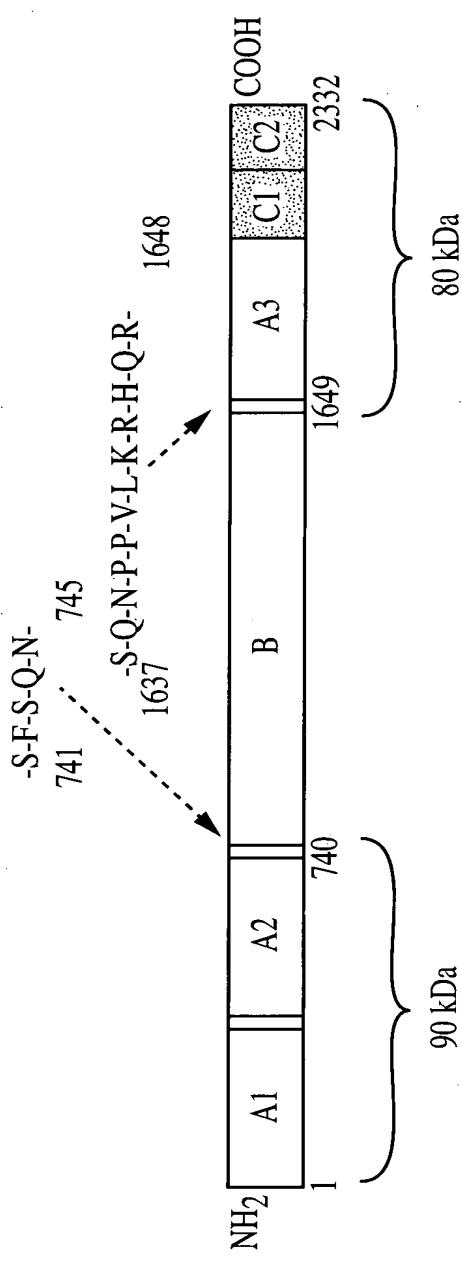


FIG. 1

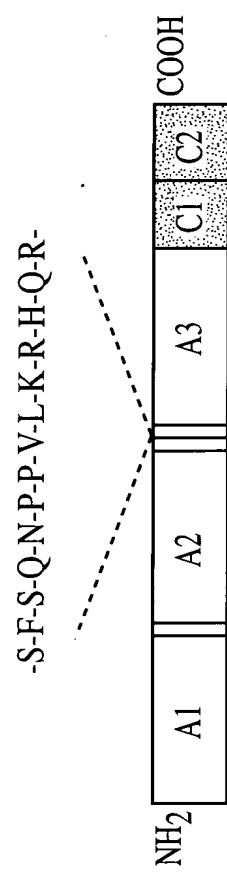


FIG. 2

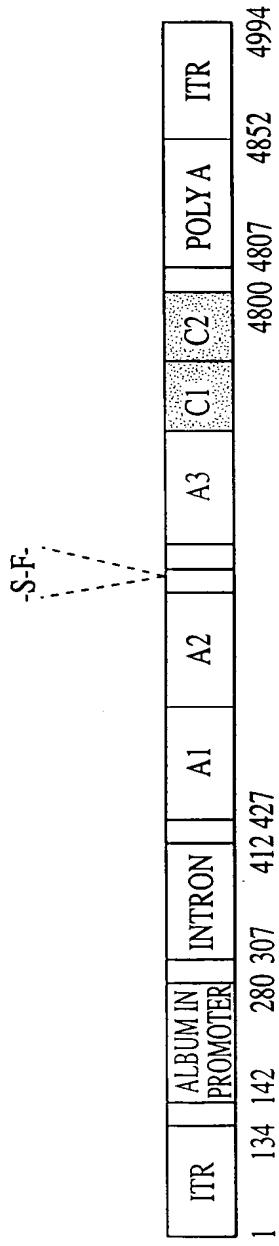


FIG. 3

-S-F-S-Q-N-P-P-V-L-K-R-H-Q-R-

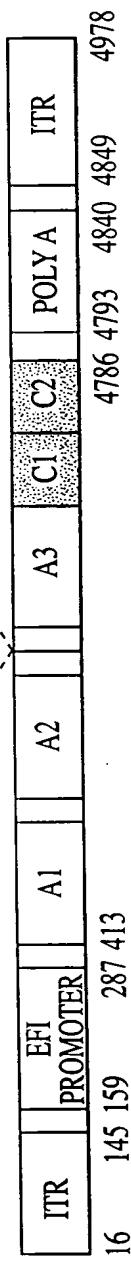


FIG. 4

FIG. 5A

FIG. 5B

FIG. 5C

FIG. 5D

FIG. 5

CAGCTGCGCGCTCGCTCAGTGGCCGCCGGCAAAGCCGGCGACCTTGGTCGCCGGCCTCAGT
GAGCGAGCGAGCGCGAGAGAGGGAGTGGCAACTCCATCACTAGGGGTTCTGCGGCCGCCAGGAATGTTGTTCTT
AAATACCATCCAGGGATGTTGTTCTAAATACCATCCAGGGATGTTGTTCTAAATACCATCTACAGTTATTGGTT
AAAGAAGTATATTAGAGCGAGTCTTCTGCACACAGATCACCTTCCGGTGCCGCCCTAGGCAGGTAAGTGCCGTGTG
TGGTTCCCGCGGGCCTGGCCTTACGGTTATGGCCCTGCGTGCCTGAATTACTGACACTGACATCCACTTTTCT
TTTCTCCACAGGTATCGATTCCACCATGCAAATAGAGCTCTCACCTGCTTCTTCTGCGCTTGCATTCTGCTT
AGTGCCACAGAAGATACTACCTGGGTGCAGTGGAACTGTATGGACTATATGCAAAGTGATCTCGGTGAGGCTGCCTGT
GGACGCAAGATTCCCTAGAGTGCCAAATCTTCCATTCAACACCTCAGTCGTACAAAAAGACTCTGTTGTAG
AATTACCGATCACCTTCAACATCGCTAACGCAAGGCCACCCCTGGATGGGTCTGCTAGGTCTTACCATCCAGGCTGAG
GTTTATGATACAGTGGTCAATTACACTTAAGAACATGGCTTCCATCCTGTCAGTCTCATGCTGTTGGTGTATCCTACTG
GAAAGCTCTGAGGGAGCTGAATATGATGATCAGACAGTCAGGAAAGAAGATGATAAAAGTCTCCCTGGTGGAA
GCCATACATATGTCGGCAGGTCTGAAAGAGAATGGCCAATGGCTCTGACCCACTGTGCCTTACCTACTCATATCTT
TCTCATGTGGACCTGGTAAAGACTTGAATTCAAGGCCATTGGAGGCCACTAGTATGTAGAGAACGGAGTCTGCCAA
GGAAAAGACACAGACCTGCAAAATTACTACTTTGCTGTATTGATGAAGGAAAAGTGGCACTCAGAACAA
AGAACTCCTGATGCAGGATAGGGATGCTGCATCTGCTCGGCCCTGGCTAAATGCACACAGTCATGGTTATGTAAC
AGGTCTCTGCCAGGTCTGATTGGATGCCACAGGAATCAGTCTATTGGCATGTGATTGGAATGGCACCACCTCTGAAGT
GCACTCAATATTCTCGAAGGTACACATTCTGTGAGGAACCATGCCAGGCGTCTGGAAATCTGCCAATAACTT
TCCTTACTGCTCAAACACTCTGATGGACCTTGGACAGTTCTACTGTTGTCATATCTCTCCACCAACATGATGGC
ATGGAAGCTTATGTCAGGAGACAGCTGTCCAGAGGAACCCAACTACGAATGAAAATAATGAAGAACGGAGACTA
TGATGATGATCTTACTGATTGATGGATGTTGTCAGGTTGATGATGACAACCTCCTCCTTATCAAATTGCGT
CAGTTGCCAAGAACATCCTAAACTGGGTACATTACATTGCTGCTGAAGAGGAGGACTGGACTATGCTCCCTAGTC
CTCGCCCCGATGACAGAACAGTTATAAAAGTCATATTGAAACAATGGCCCTCAGCGGATTGGTAGGAAGTACAAAAAGT
CCGATTTATGGCATACACAGATGAAACCTTAAGACTCGTGAAGCTATTGAGATCAGGAATCTGGACCTTAC
TTTATGGGAAGTTGGAGACACACTGTTGATTATTTAAGAATCAAGCAAGCAGACCATATAACATCTACCCCTACCGA
ATCACTGATGTCCGTCCTTGTATTCAAGGAGATTACCAAAAGGTGAAACATTGAAAGGATTTCACATTGCCAGG
AGAAATATTCAAATATAATGGACAGTGACTGAGAAGATGGCCAACATAATCAGATCCTCGGTGCCTGACCCGCTATT
ACTCTAGTTGTTAATATGGAGAGAGATCTAGCTCAGGACTCATTGGCCCTCTCCTCATCTGCTACAAAGAATCTGTA
GATCAAAGAGGAAACAGATAATGTCAGACAAGAGGAATGTCATCCTGTTCTGATTGATGAGAACCGAAGCTGGTA
CCTCACAGAGAATATACAACGCTTCTCCCCATCCAGCTGGAGTGCAGCTGAGGATCCAGAGTTCCAAGCCTCCAACA
TCATGCACAGCATCAATGGCTATGTTTGTAGTTGCAGTTGTCAGTTGTCATGAGGTGGCATACTGGTACATT
CTAAGCATGGAGCACAGACTGACTTCCTTCTGCTTCTGGATATACCTCAAACACAAATGGTCTATGAAGA

FIG. 5A

CACACTCACCTATTCCATTCTCAGGAGAACTGCTTCATGTCGATGGAAAACCCAGGTCTATGGATTCTGGGTGCC
ACAACTCAGACTTCGGAACAGAGGCATGACCGCCTACTGAAGGTTCTAGTTGTGACAAGAACACTGGTATTATTAC
GAGGACAGTTATGAAGATATTCAGCATACTGCTGAGTAAAACAATGCCATTGAACCAAGAAGCTCGAAATAACTCG
TACTACTCTCAGTCAGATCAAGAGGAAATTGACTATGATGATACCATATCAGTTGAAATGAAGAAGGAAGATTGACA
TTTATGATGAGGATGAAATCAGAGCCCCCGAGCTTCAAAAGAAAACACGACACTATTTATTGCTGCAGTGGAGAGG
CTCTGGGATTATGGGATGAGTAGCTCCCCACATGTTCTAAGAAACAGGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAA
AGTTGTTTCCAGGAATTACTGATGGCTCTTACTCAGCCCTATACCGTGGAGAACTAAATGAACATTGGACTCC
TGGGCCATATATAAGAGCAGAAGATAATATCATGGTAACCTTCAGAAATCAGGCCTCTGTCCTTATTCTTC
TATTCTAGCCTTATTCTTATGAGGAAGATCAGAGGAAGGAGACAACCTAGAAAAAACTTGTCAGCCTAATGAAAC
CAAAACTTACTTTGAAAGTGCACATCATGGCACCCACTAAAGATGAGTTGACTGCAAAGCCTGGCTTATTCT
CTGATGTTGACCTGGAAAAGATGTGCACTCAGGCCTGATTGGACCCCTCTGTCGACACTAACACACTGAACCC
GCTCATGGGAGACAAGTGCACAGTACAGGAATTGCTCTGTTTACCATCTTGATGAGACCAAAAGCTGGTACTTCAC
TGAAAATATGAAAGAAACTGCAGGGCTCCCTGCAATATCCAGATGGAAGATCCCACCTTAAAGAGAATTATGCTTCC
ATGCAATCAATGGCTACATAATGGATACACTACCTGGCTTAGTAATGGCTCAGGATCAAAGGATTCGATGGTATCTGCTC
AGCATGGGAGCAATGAAACATCCATTCTATTCAATTGTCAGTGGACATGTGTTACTGTACGAAAAAAAGAGGAGTAA
AATGGCAGTGTACAATCTATCCAGGTGTTTGAGACAGTGGAAATGTTACCATCAAAGCTGGAATTGGCGGGTGG
AATGCCTTATTGGCGAGCATCTACATGCTGGATGAGCACACTTTCTGGTGTACAGCAATAAGTGTCAAGACTCCCTG
GGAATGGCTTCTGGACACATTAGAGATTTCAGATTACAGCTTCAGGACAATATGGACAGTGGGCCAAAGCTGGCCAG
ACTTCATTATTCCGGATCAATCAATGCCCTGGAGCACCAAGGAGCCCTTCTGGATCAAGGTGGATCTGTGGCACCAA
TGATTATTACGGCATCAAGACCCAGGGTGGCGTCAGAAGTCTCCAGCCTACATCTCAGTTTATCATCATGTAT
AGTCTTGATGGGAAGAAGTGGCAGACTTATCGAGGAAATTCCACTGGAACCTTAATGGTCTTGGCAATGTGGATT
ATCTGGATAAAACACAATATTAAACCTCAATTATTGCTCGATACATCCGTTGCACCCACTCATTATAGCATT
GCAGCACTTCGATGGAGTTGATGGCTGTGATTAAATAGTGCAGCATGCCATTGGAAATGGAGAGTAAAGCAATA
TCAGATGCACAGATTACTGCTTCATCCTACTTACCAATATGTTGCCACCTGGTCTCCTCAAAAGCTGACTTCACCT
CCAAGGGAGGAGTAATGCCCTGGAGACCTCAGGTGAATAATCCAAAAGAGTGGCTGCAAGTGGACTTCCAGAACAAATGA
AAGTCACAGGAGTAACTACTCAGGGAGTAAATCTCTGCTTACAGCATGTATGTGAAGGAGTTCTCATCTCCAGCAGT
CAAGATGCCATCAGGGACTCTCTTTTCAAGATGGCAAAGTAAAGGTTTCAAGGAAATCAAGACTCCTCACACC
TGTGGTAACTCTAGACCCACCGTTACTGACTCGTACCTCGAATTCAACCCAGAGTGGGTGCACCAAGGAGTGC
TGAGGATGGAGGTTCTGGCTGGAGGCACAGGACCTACTGACTCGAGAATAAGAGTCAAGAGCTAGAGATCTGT
TGTTGGTTTTGTGCGGCCAGGAACCCCTAGTGATGGAGTTGGCCACTCCCTCTGCGCGCTCGCTGCTCACT
GAGGCCGGCGACCAAGGTGCCCCGACGCCGGCTTGCCGGCGGCCAGTGAGCGAGCGCGCAGCTGCCT
GCAGGACATGTGAGCAAAGGCCAGCAAAAGGCCAGGAACCGTAAAGGCCGCGTTGCTGGCGTTTCCATAGGCTCC
GCCCTGACGAGCATCACAAATCGACGCTCAAGTCAGAGGTGGCGAACCCGACAGGACTATAAGATACCAGGCG
TTTCCCCCTGGAAGCTCCCTGCGCTCTCTGTTCCGACCCCTGCCGTTACCGGATACCTGTCGCCCTTCTCCCT
GGGAAGCGTGGCGCTTCTCATAGCTCACGCTGTAGGTATCTCAGTTGGTGTAGGTCGTTGCTCCAAGCTGGCTGT
TGCACGAACCCCCCGTTCAGCCGACCGCTGCGCCTATCCGTAACATCGTCTTGAGTCCAACCCGTAAGACACGAC
TTATGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTGAAGTG
GTGGCCTAACTACGGCTACACTAGAAGGACAGTATTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTCGAAAAAGAG
TTGGTAGCTCTGATCCGGCAAACAAACCCACCGCTGGTAGCGGTGGTTTTGCAAGCAGCAGATTACGCGCAGA
AAAAAAGGATCTCAAGAAGATCCTTGATTTCTACGGGTCTGACGCTCAGTGGAACGAAAACACGTTAACGGAT

FIG. 5B

TTGGTCATGAGATTATCAAAAGGATCTCACCTAGATCCTTTAAATTAAAATGAAGTTAAATCAATCTAAAGTA
TATATGAGTAAACTTGGTCTGACAGTTACCAATGCTAATCAGTGAGGCACCTATCTAGCGATCTGTCTATTCGTTCA
TCCATAGTGCCTGACTCCCCGTCGTAGATAACTACGATAACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGAT
ACCGCGAGACCCACGCTACCGGCTCCAGATTACGCAATAACCAGCCAGCCGAAAGGGCCAGCGCAGAAGTGGC
CTGCAACTTTATCCGCCTCCATCCAGTCTATTAAATTGTCGCCGGAAAGCTAGAGTAAGTAGTTGCCAGTTAATAGTTG
CGCAACGTTGTCGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCTGGTATGCCATTCAGCTCCGGTCCCA
ACGATCAAGGCAGTTACATGATCCCCATGTTGCAAAAAGCGGTTAGCTCCTCGGTCTCGATCGTGTAGAA
GTAAGTTGCCCGCAGTGTATCACTCATGTTATGCCAGCAGTCATAATTCTCTACTGTATGCCATCCGTAAGATGC
TTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCCGACCGAGTTGCTCTGCCGGCGTC
AATACGGATAATACCGGCCACATAGCAGAACTTAAAGTGCATCATTGAAACGTTCTCGGGGCAAACACT
CAAGGATCTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTCAGCATCTTACTTC
ACCAGCCTTCTGGTGAGCAAAAACAGGAAGGCAGGCAAAATGCCGAAAAAGGAATAAGGGCAGACGGAAATGTA
ACTCATACTCTCCTTTCAATATTATTGAAGCATTATCAGGGTTATTGTCATGAGCGGATACATATTGAATGTA
TTAGAAAAATAACAAATAGGGTCCCGCAGCATTCGGGAAAGTGCACCTGACGTCTAAGAAACCATTATTAC
ATGACATTAACCTATAAAATAGGCGTATCACGAGGCCCTTCGTCTCGCGTTGGTATGACGGTAAAACCTCTG
ACACATGCAGCTCCGGAGACGGTCACAGCTGTGTAAGCGGATGCCGGAGCAGACAAGCCGTAGGGCGCGTCAG
CGGGTGTGGCGGGTGTGGCTTAACATGCGCATCAGAGCAGATTGACTGAGAGTGCACCATAAAATTGTA
AACGTTAATATTGTTAAATCGGTTAAATTGTTAAATCAGCTCTTAAACCAATAGGCCAAATCGGCAA
AATCCCTATAAAATCAAAGAATAGCCCAGATAGGGTTGAGTGTGTTCCAGTTGGAACAAGTCCACTATTAAAGA
ACGTGGACTCCAACGTCAAAGGGCAAAACCGTCTACGGGCGATGCCACTACGTGAACCATCACCCAAATCAAGT
TTTTGGGTCAGGTGCCGTAAGCACTAAATCGAACCTAAAGGGAGCCCCCGATTAGAGCTGACGGGAAAGGCC
GGCGAACGTGGCGAGAAAGGAAGGGAAAGCAGGAAAGGAGCAGGGCGCTAGGGCGTGGCAAGTGTAGCGGTACGCTGC
CGTAACCACACCCGCCGCTTAATGCGCCGTACAGGGCGTACTATGGTGTGTTGACGTATGCCGTGAA
TACCGCACAGATGCGTAAGGAGAAATACCGCATCAGGCCGTAACCTGTCGGATCACCGAAAGGACCCGTAAGTGATA
ATGATTATCATCTACATATCACACGTCGGAGGCCATCAAACACGTCAAATAATCAATTATGACGCAAGGTATCGTA
TTAATTGATCTGCATCAACTAACGTAACAAACTTCAGACAATACAAATCAGCGACACTGAATACGGGAAACCTCAT
GTCAACGAAGAACAGAACCCCGAGAACACAACCGCAACATCCGTTCTCTAACCAATGATTGAACAAATTACATCG
CTCTTGAGCAAAAGGGTCCGGAATTCTCAGCCTGGTCATTGAGCCTGCCGTCGGAGACTAACGTCAAGAAAGAGA
GCATATACATCAATTAAAGTGTAGAAGAATGAACATCCCGTTCTCCCGAACAGGACGATATTGTAATTACT
TAATTACGAGGGCATTGCACTAACGTTGAGCTTACCACTTCTGACAGTACAGACTGCCGTGTTGGCTCTGTCA
CAGACTAAATAGTTGAATGATTAGCAGTTATGGTGTAGTCAGTCACCACCCAGGAATAATCCTCATATTATTATCGTGC
TTCACCAACGCTGCCTCAATTGCTCTGAATGCTCCAGAGACACCTATGTTCTATACATGCAATTACAACATCAGGGTA
ACTCATAGAAATGGTCTATTAAGCATATTTCACGAATCAGATCCACGGAGGGATCATCAGCAGATTGTTCTTAT
TCATTGGTGTGCTCCATGCGCTTGTCTTCATCTAGGGTTAAATATTACTCAAATCTTCTGTATGAAGATTGAGC
ACGTTGGCCTTACATACATCTGCGGTTGTATTCCCTCCAGAATGCCAGGACCCGACTTGTGTTACGCAACCAATAC
TATTAAGTGAACATTCCTAATATTGACATAATCATCAACAAACACAAGGAGGTCAAGGACGATATTGAAACGATAAA
AACGATAATGCAAACACTACGCGCCCTGTATCACATGGAAGGTTACCAATGGCTCAGGTTGCCATTAAAGGAAATAT
TCGATCAAGTGCAGAAAGATTAGACTGTGAATTGTTTATTCTGAACCTAACGTCAAACGTCTCACATTATATTAC
TATCTAGCCACAGATAATATTACATCGTGTAGAAAACGATAACACCGTGTAAATAAAAGGACTAAAAAGGTTGAAA
TGTAAATTCTCAAGAAACACGCACTTATAGAAACGTCCTATGATAGGTTGAAATCAAGAGAAATCACATTACGCAAT
ACAGGGAAATCTGCTAAAGCAGGAGTTCCGATGGTTACAAATATCCATGAACATAAAAGATATTACTATACCTT

FIG. 5C

GATAATTCAATTACTATTTACTGAGAGCATTAGAACACTACACAAATCTTCCACGCTAAATCATAACGTCCGGTTCTT
CCGTGTCAGCACCGGGCGTTGGCATAATGCAATACGTGTACCGCTAAACCCGTGTCATCGTTAATTATTCCCGG
ACACTCCCGCAGAGAAGTCCCCGTCAAGGGCTGTGGACATAGTTAATCCGGAATACAATGACGATTCACTGCACCTGAC
ATACATTAAATAATTTACAATATGAAATTCAACTCATTGTTAGGGTTGTTAATTCTACACATACTGATTCTG
GAACCTCAAAAAGCATCGGAATAACACCATGAAAAAAATGCTACTCGCTACTGCGCTGGCCCTGTTATTACAGGATGT
GCTCAACAGACGTTACTGTTCAAAACAAACCGGCAGCAGTAGCACCAAGGAAACCATCACCCATCATTCTCGTT
TGGATTGGCAGAAGAAAATGTCGATGCAGCAGGAAATTGTCGGCGCAGAAAATGTTAAAACAGAAACCCAGC
AAACATTCTGAAATGGATTGTCGTTTATTACTTACGGCATTACTCCGCTGGAAGCGCGTGTATTGCTCACAA
TAATTGCATGAGTTGCCATCGCATACTGGCAACTCTATCTGACTGCTCATTAAATATACTTCGGTTCTTCAGTT
GTTTTGCATAGTGTACGCCCTCTCTGAGGGTGAATAATCCGTTAGCGGTGTCGCGAGTCGGGGGAGGCTGCA
TTATCCACGCCGGAGGCAGGTTACCGCACTGACTGACAGACTGCTTGATGTGCAACCGACGACGACCAGCGC
AACATCATCACGCAGAGCATCTTCAGCTTAGCAGCTAACCTCTCGTGTATTGTCATCGAGCGCAGCACAT
CACGCTGACGCATCTGCACTGAGTAATTGCCGCTGCCAGCTCAGTTCTGGCATTGGTGCCTGGCTTTG
TAGGTAATGGCGTTATCACGGTAATGATTAACAGCCATGACAGGAGCAGATGATGAGATAACCAAGAGCGGAGATAAT
CGCGGTGACTCTGCTCATACATCAATCTCTGACCGTTCCGCCGCTTCTTGAAATTGCAATCAGGCTGTCAGCCTT
ATGCTCGAACTGACCATAACCAGCGCCGGCAGTGAAGCCAGATAATGCTGCAACGGTCATTGCGTACGGATATCAC
CACGATCAATCATAGGTAAGGCCACGCTCCTTAATCTGCTGCAATGCCACAGCGCTCTGACTTTGGAGAGAAGTCT
TTCAGGCCAAGCTGCTTGCAGGCTAGGCATCCCACCAACGGAAAGAAGCTGGTAGCGTCCGGCGCTGTTGATTGAGTT
TGGGTTAGCGTGACAAGTTGCGAGGGTGTGGAGTAATCAGTAAATAGCTCTCCGCTACAATGACGTATAACCAT
GATTCTGGTTCTGACGTCCGTTATCAGTTCCCTCCGACACGCCAGCATATCGAGGAACGCCCTACGTTGATTATTG
ATTCTACCATCTTCACTCCGCTTTTAGCAGCGAAGCGTTGATAAGCGAACCAATCGAGTCAGTACCGATGTAGC
CGATAAACACGCTGTTATATAAGCGAGATTGCTACTTAGCAGGCCAGTCAGGAGTCACGAATGAACCAGCGATA
ATGGCGCACATCGTGCCTGCTGATTACTGTTGTAACGCACCGCATTATCTGCCGCGAACGGTACGCCATTGCAA
CGCAAGGATTGCCCGATGCCCTGTTCCCTTGCCGAGAACGGGCCAACAGGTATGTTCTGGCATCTCATGT
CTTACCCCCAATAAGGGATTGCTCTATTAAATTAGGAATAAGGTGATTACTGATAGAACAAATCCAGGCTACTGTG
TTAGTAATCAGATTGTCGTGACCGATATGCACGGCAAAACGGCAGGAGGTTGTTAGCGCGACCTCTGCCACCCGCT
TTCACGAAGGTATGTGAAAAGGCCGAGCGTAACTATTACTAATGAATTCAAGGACAGACAGTGGCTACGCTCAGTT
GGGTTGTGCTGTTGCTGGCGCGATGACCGCTGTACGCAATTGGTGTACGGTTCTGCTTCCGGTATTGCTTAATTCA
GCACAAACGGAAAGGCACTGGCTAACCGAGCGTCCGACTCTCACGATTATCGACTCAATGCTTACCTGTTGCG
ATATAAAAAATCCGAAACCGTTATGCAGGCTCTAAACTATTACCTGCGAAGTGTGTTGGGATTGCAATTGAGACCTCT
CTGCTGCGATGGTTGGAGTTCCAGACGATACGTCGAAGTGCACCAACTAGGGGAATCGGTAGTAAGCGCCCTCTTT
CATCTCACTACCACAACGAGCGAATTAAACCATCGTTGAGTCAGTAAATTACCAATTATTCAATAAGTCATAATCATGC
CGTTAATATGTTGCCATCCGTGCAATCATGCTGCAACGTGTACCGCATTCAAATGTTGCTGCGATTGACTCTTCT
TTGTGGCATTGCACCAACAGAGCGTCATACAGCGCTTAACAGTGCAGGCGATTGGTGGGATTGCAAGGTTGGGATTAG
CATCGTCACAGCGCAGATATGCTGCGCTTGTGGCATCTTGAATAGCCGACGCCCTTGCACTCTCCGCACTCTTCTCGA
CAACTCTCCCCACAGCTGTTGGCAATATCAACCGCACGCCGTACCATGGCAATCTGCAATTGCGCATCTTGCCTAGTATT
GTCGCGGCACTACGGCAATAATCCGATAAGCGAATGTTGCGAGCAGTGGCAGTACCTTGCCTAGTATTCTTCAAG
CTGCCCTGCAGG

FIG. 5D

FIG. 6A

FIG. 6B

FIG. 6C

FIG. 6

CGCCCCTGCAGGCAGCTGCGCGCTCGCTCGCTCACTGAGGCCGCCGGCAA
AGCCCAGGGCGTCGGCGACCTTGGTCGCCCGGCCTCAGTGAGCGAGCGAGC
GCGCAGAGAGGGAGTGGCCAACCTCCATCACTAGGGTTCTGCGGCCGCACG
CGTGGTGGCGCGGGTAAACTGGAAAGTGATGTCGTGTACTGGCTCCGCCT
TTTCCCGAGGGTGGGGGAGAACCGTATATAAGTGCAGTAGTCGCCGTGAAC
GTTCTTTTCGCAACGGGTTGCCGCCCGCAGGTAAGTGCAGGGAAAT
GTTGTTCTTAAATACCATCGCTCCAGGAAATGTTCTTAAATACCATC
TACTGACACTGACATCCACTTTCTTCTCCACAGGTATCGATCCACCA
TGCAAATAGAGCTCTCACCTGCTTCTTCTGTGCCTTGCATTCTGCTT
TAGTGCCACCAGAAGATACTACCTGGTGCAGTGGAACTGTCATGGACTAT
ATGCAAAGTGATCTGGTGGCTGCCTGTGGACGCAAGATTCTCCTAGAG
TGCCAAATCTTCCATTCAACACCTCAGTCGTGTACAAAAGACTCTGTT
TGTAGAATTCACGGATCACCTTCAACATCGCTAACCCAAGGCCACCCCTGG
ATGGGTCTGCTAGGTCTACCATCCAGGCTGAGGTTATGATACAGTGGTCA
TTACACTTAAGAACATGGCTTCCCCTCAGTCAGTCTCATGCTGTGGTGT
ATCCTACTGGAAAGCTCTGAGGGAGCTGAATATGATGATCAGACCAAGTCAA
AGGGAGAAAGAAGATGATAAAAGTCTCCCTGGTGGAAAGCCATACATATGTCT
GGCAGGTCTGAAAGAGAATGGTCCAATGGCCTCTGACCCACTGTGCCTTAC
CTACTCATATCTTCTCATGTGGACCTGGTAAAGACTTGAATTCAAGGCCTC
ATTGGAGCCCTACTAGTATGTAGAGAAGGGAGTCTGGCCAAGGAAAAGACAC
AGACCTTGCACAAATTACTACTTTGCTGTATTGATGAAGGGAAAAG
TTGGCACTCAGAAACAAAGAACCTCCTGATGCAGGATAGGGATGCTGCATCT
GCTGGGCTGGCTAAATGCACACAGTCATGGTTATGTAACAGGTCTC
TGCCAGGTCTGATTGGATGCCACAGGAAATCAGTCATTGGCATGTGATTGG
AATGGGCACCAACTCCTGAAGTGCACTCATATTCTCGAAGGTACACATT
CTTGTGAGGAACCACATGCCAGGCCTTGGAAATCTGCCAACAACTTTCC
TTACTGCTCAAACACTCTGATGGACCTGGACAGTTCTACTGTTGTCA
TATCTCTCCCACCAACATGATGGCATGGAAGCTTATGTCAAAGTAGACAGC
TGTCCAGAGGAACCCCAACTACGAATGAAAAATAATGAAGAAGCGGAAGACT
ATGATGATGATCTTACTGATTCTGAAATGGATGTGGTCAGGTTGATGATGA
CAACTCTCCTCCTTATCCAAATTGCTCAGTTGCCAACAGCATCCTAAA

FIG. 6A

ACTTGGGTACATTACATGCTGCTGAAGAGGAGGACTGGGACTATGCTCCCT
TAGTCCTCGCCCCGATGACAGAAGTTATAAAAGTCAATATTGAACAATGG
CCCTCAGCGGATTGGTAGGAAGTACAAAAAAAGTCCGATTTATGGCATAACACA
GATGAAACCTTTAAGACTCGTGAAGCTATTCAAGCATGAATCAGGAATCTTGG
GACCTTTACTTATGGGAAGTTGGAGACACACTGTTGATTATATTAAAGAA
TCAAGCAAGCAGACCATATAACATCTACCCCTACGGAATCACTGATGTCCGT
CCTTGATTCAGGAGATTACCAAAAGGTGTAAAACATTGAAGGATTTTC
CAATTCTGCCAGGAGAAATATTCAAATATAATGGACAGTGACTGTAGAAGA
TGGGCCAACTAAATCAGATCCTCGGTGCCTGACCCGCTATTACTCTAGTTTC
GTTAATATGGAGAGAGATCTAGCTTCAGGACTCATTGGCCCTCTCCTCATCT
GCTACAAAGAATCTGTAGATCAAAGAGGAAACCAGATAATGTCAGACAAGAG
GAATGTCATCCTGTTCTGTATTGATGAGAACCGAAGCTGGTACCTCACA
GAGAATATAACACGCTTCTCCCCAATCCAGCTGGAGTGCAGCTTGAGGATC
CAGAGTTCCAAGCCTCCAACATCATGCACAGCATCAATGGCTATGTTTGA
TAGTTGCAGTTGTCAGTTGCATGAGGTGGCATACTGGTACATTCTA
AGCATTGGAGCACAGACTGACTCCTTCTGTCTTCTGGATATAACCT
TCAAACACAAAATGGTCTATGAAGACACACTCACCTATTCCCATTCTCAGG
AGAAAATGTCTTCATGTCGATGGAAAACCCAGGTCTATGGATTCTGGGGTGC
CACAACTCAGACTTCGGAACAGAGGCATGACCGCCTACTGAAGGTTCTA
GTTGTGACAAGAACACTGGTGATTATTACGAGGACAGTTATGAAGATATTTC
AGCATACTTGCTGAGTAAAACAATGCCATTGAACCAAGAACAGCTTCTCCCAG
AATCCACCAAGTCTTGAAACGCCATCAACGCGAAATAACTCGTACTACTCTTC
AGTCAGATCAAGAGGAAATTGACTATGATGATACCATATCAGTTGAAATGAA
GAAGGAAGATTTGACATTATGATGAGGATGAAAATCAGAGCCCCCGAGC
TTCAAAAGAAAACACGACACTATTTATTGCTGCAGTGGAGAGGCTCTGGG
ATTATGGGATGAGTAGCTCCCCACATGTTCTAAGAACAGGGCTCAGAGTGG
CAGTGTCCCTCAGTTCAAGAAAGTTGTTCCAGGAATTTACTGATGGCTCC
TTTACTCAGCCCTATACCGTGGAGAACTAAATGAACATTTGGACTCCTGG
GCCATATATAAGAGCAGAAGTGAAGATAATCATGGTAACCTTCAGAAA
TCAGGCCTCTCGTCCCTATTCTTCTATTCTAGCCTTATTCTTATGAGGAA
GATCAGAGGCAAGGAGCAGAACCTAGAAAAAACTTGTCAAGCCTAATGAAA
CCAAAATTAACCTTTGGAAAGTGCAACATCATGGCACCCACTAAAGATGA
GTTTGACTGCAAAGCCTGGGCTTATTCTCTGATGTTGACCTGGAAAAAGAT
GTGCACTCAGGCCTGATTGGACCCCTCTGGTCTGCCACACTAACACACTGA
ACCCTGCTCATGGGAGACAAGTGACAGTACAGGAATTGCTCTGTTTAC
CATCTTGATGAGACCAAAAGCTGGTACTTCACTGAAAATATGGAAAGAAAC
TGCAGGGCTCCCTGCAATATCCAGATGGAAGATCCCACCTTTAAAGAGAATT
ATCGCTTCCATGCAATCAATGGCTACATAATGGATAACACTACCTGGCTTAGT
AATGGCTCAGGATCAAAGGATTGATGGTATCTGCTCAGCATGGCAGCAAT

FIG. 6B

GAAAACATCCATTCTATTCAATTCACTGGACATGTGTTCACTGTACGAAAAA
AAGAGGAGTATAAAATGGCACTGTACAATCTATCCAGGTGTTTGAGAC
AGTGGAAATGTTACCATCCAAAGCTGGAATTGGCGGGTGGAAATGCCTTATT
GGCGAGCCTACATGCTGGGATGAGCACACTTTCTGGTGTACAGCAATA
AGTGTCACTCCCCTGGGAATGGCTCTGGACACATTAGAGATTTCAGAT
TACAGCTTCAGGACAATATGGACAGTGGGCCAAAGCTGGCCAGACTTCAT
TATTCCGGATCAATCAATGCCTGGAGCACCAAGGAGCCCTTCTGGATCA
AGGTGGATCTGTTGGCACCAATGATTATTACACGGCATCAAGACCCAGGGTGC
CCGTCAAGTTCTCCAGCCTACATCTCAGTTATCATCATGTATAGT
CTTGATGGGAAGAAGTGGCAGACTTATCGAGGAAATTCCACTGGAACCTAA
TGGTCTTCTTGCAATGTGGATTACATCTGGATAAAACACAATATTTAA
CCCTCCAATTATTGCTCGATACATCCGTTGCACCCAACCTCATTATAGCATT
CGCAGCACTCTCGCATGGAGTTGATGGCTGTGATTAAATAGTTGCAGCA
TGCCATTGGAATGGAGAGTAAAGCAATATCAGATGCACAGATTACTGCTTC
ATCCTACTTACCAATATGTTGCCACCTGGTCTCCTCAAAAGCTCGACTT
CACCTCCAAGGGAGGAGTAATGCCTGGAGACCTCAGGTGAATAATCCAAAAG
AGTGGCTGCAAGTGGACTTCCAGAAGACAATGAAAGTCACAGGAGTAACACTAC
TCAGGGAGTAAATCTCTGCTTACCAAGCAGTATGTGAAGGAGTTCCCTCATC
TCCAGCAGTCAAGATGGCCATCAGTGGACTCTCTTTTCAGAATGGCAAAG
TAAAGGTTTCAGGGAAATCAAGACTCCTCACACCTGTGGTAACCTCT
AGACCCACCGTTACTGACTCGCTACCTCGAATTCAACCCCCAGAGTTGGGTG
CACCAAGATTGCCCTGAGGATGGAGGTTCTGGGCTGCGAGGCACAGGACCTCT
ACTGACTCGAGCCTAATAAAAGGAAATTATTTCAATTGCAATAGTGTGTTGG
TTTTTGTTGTGCGGGCCGCAGGAACCCCTAGTGATGGAGTTGCCACTCCCTC
TCTGCGCGCTCGCTCGCTCACTGAGGCCGGCGACCAAAGGTCGCCGACGC
CCGGGCTTGCCTGGCGGCCTCAGTGAGCGAGCGAGCGCAGCTGCCTGC
AGGACAT

FIG. 6C

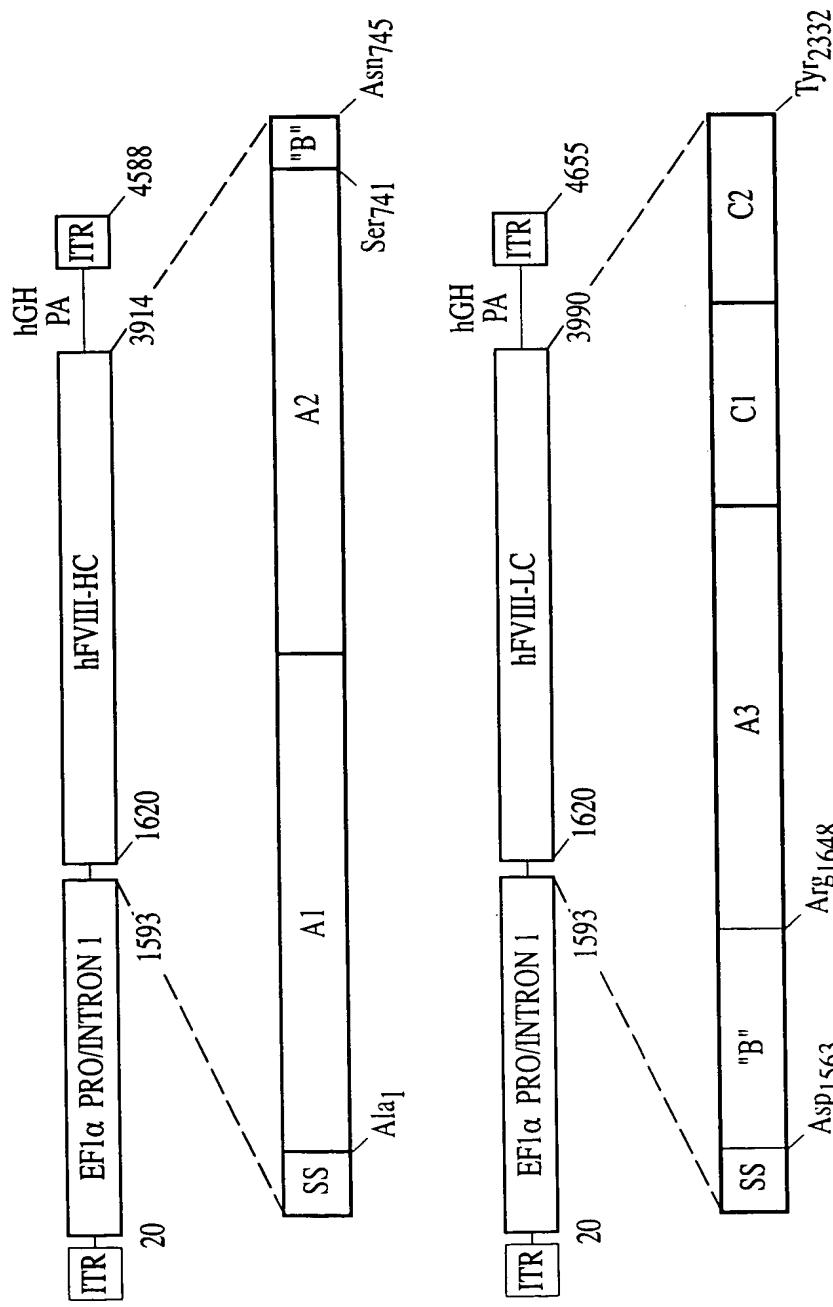


FIG. 7

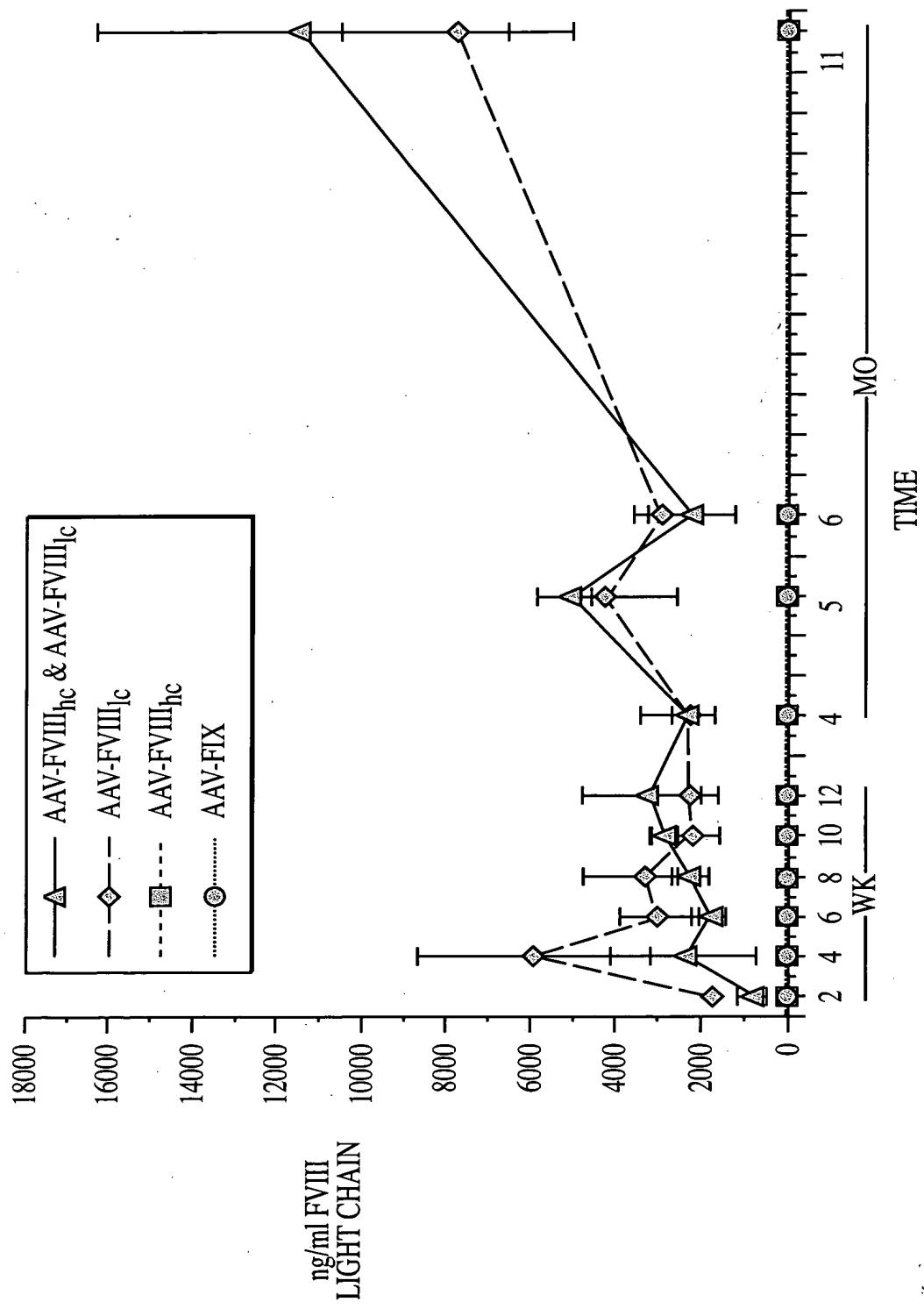


FIG. 8

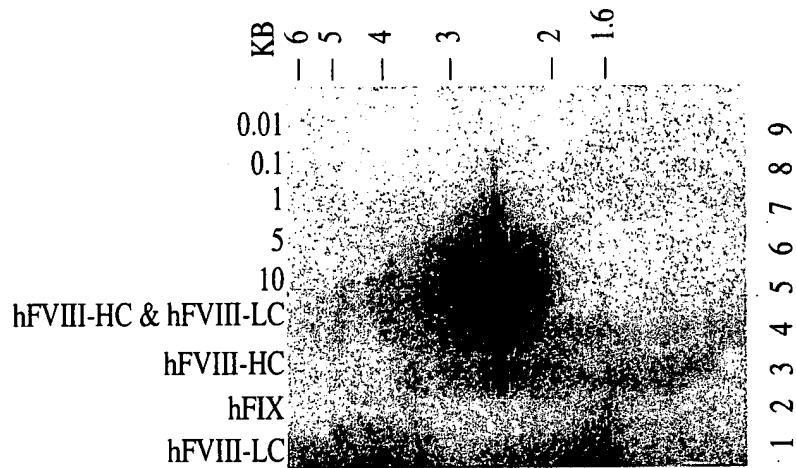


FIG. 9B

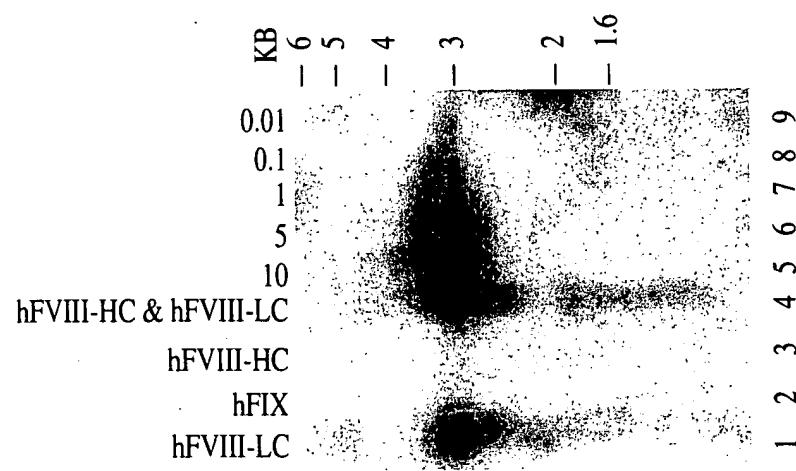


FIG. 9A

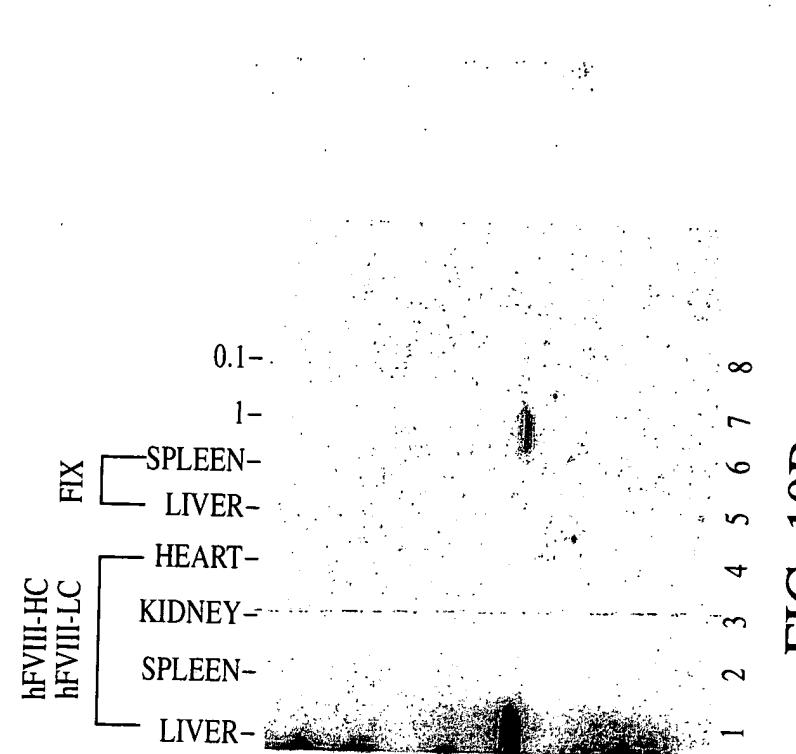


FIG. 10B

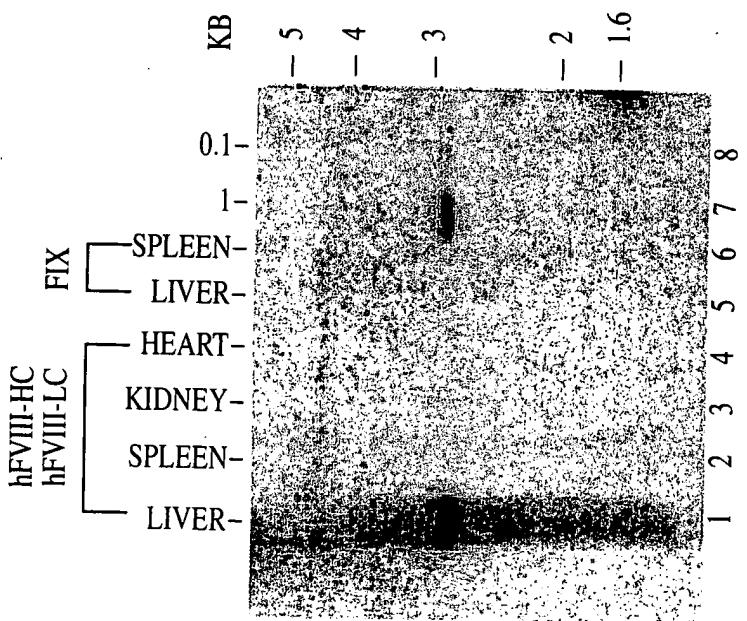


FIG. 10A

UV

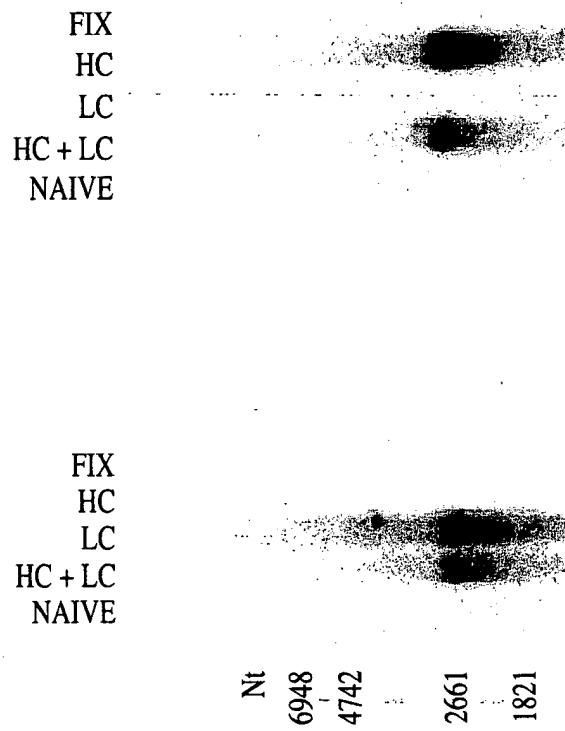


FIG. 11A

FIG. 11B